## **CLAIMS**

What is claimed is:

1	1.	A computerized, Internet protocol (IP) based voice response system for servicing a

- 2 call received over a public switched telephone network (PSTN) comprising:
- a PSTN-to-IP gateway for connecting to the public switched telephone network;
- an IP network medium connected to the gateway; and
- a network server in communication with the network medium for automated
- 6 interaction with a user participating in the call.
- 1 2. The voice response system of claim 1, wherein the network server comprises a host
- 2 computer for executing a voice application program, a grammar database corresponding to a
- 3 set of recognizable utterances, and a voice recognition engine for comparing a speech input
- from the user against the set of recognizable utterances.
- 1 3. The voice response system of claim 2, wherein the voice application program is a
- 2 VoiceXML program.
- 1 4. The voice response system of claim 2, further comprising a firewall in communication
- 2 with the network medium for connecting the network server to an external IP network through
- 3 the firewall, wherein the voice application program is remotely hosted on the external IP
- 4 network.
- 1 5. The voice response system of claim 2, wherein the network server performs call
- 2 control communications with the PSTN-to-IP gateway in accordance with a SIP protocol.

1	6. A scalable, computerized, Internet protocol (IP) based voice response system for	
2	servicing a plurality of calls received over a public switched telephone network (PSTN)	
3	comprising:	
4	a PSTN-to-IP gateway for connecting to the public switched telephone network;	
5	an IP network medium connected to the gateway;	
6	a plurality of network server in communication with the network medium for	
7	automated interaction with a set of users participating in the plurality of calls; and	
8	a proxy server in communication with the PSTN-to-IP gateway for load balancing the	
9	plurality of calls amongst the plurality of network servers.	
1	7. The voice response system of claim 6, wherein each network server of the plurality of	
2	network servers comprises a host computer having a distinct network identification number.	
1	8. The voice response system of claim 7, further comprising a configuration server for	
2	automatically loading and configuring an initial software environment for the host computer	
3	during its initial bootup sequence based upon the network identification number.	
1	9. A method of using voice over Internet protocols (VoIP) to handle circuit switched	

calls in a voice activated system, the method comprising:
 terminating a circuit switched call at a conversion device that translates the circuit
 switched call into a VoIP format as a packet switched call;
 forwarding the packet switched call in the VoIP format from the conversion device to
 a computer system; and

- performing speech recognition on the call using audio data extracted from the VoIP
  format by the computer system.
- 1 10. The method of claim 9, wherein the conversion device and the computer system are
- 2 located in close physical proximity.
- 1 11. The method of claim 9, wherein there is a second computer system physically distant
- 2 from the conversion device and wherein the forwarding goes to the second computer system
- 3 responsive to a failure of the first computer system.
- 1 12. The method of claim 9, further comprising prior to the forwarding sending a message
- 2 from the conversion device to a second computer system, the second computer system
- 3 selecting the computer system from a plurality of computer systems to receive the call.
- 1 13. The method of claim 12, wherein the selecting according to a predetermined set of
- 2 criteria to balance number of calls being handled by each of the plurality of computer
- 3 systems.
- 1 14. The method of claim 12, wherein the message comprises a session initiation protocol
- 2 (SIP) request.
- 1 15. The method of claim 12, wherein the forwarding occurs responsive to a SIP
- 2 acknowledgement from the computer system.